

## IKB alpha Rabbit mAb

Catalog No: #48695



Package Size: #48695-1 50ul #48695-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

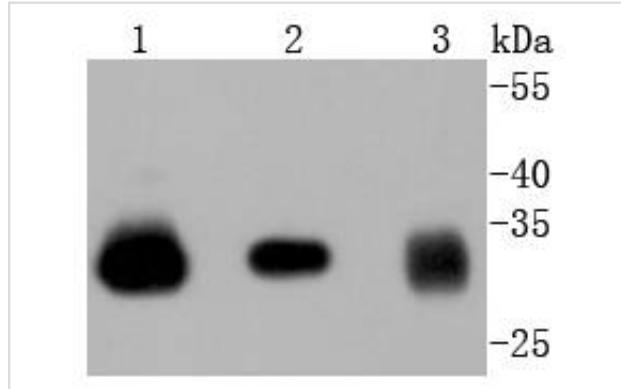
## Description

Product Name	IKB alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SZ00-07
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	I kappa B alpha antibody I-kappa-B-alpha antibody IkappaBalp antibody IKB-alpha antibody IKBA antibody IKBA_HUMAN antibody IKBalp antibody MAD 3 antibody MAD3 antibody Major histocompatibility complex enhancer-binding protein MAD3 antibody NF kappa B inhibitor alpha antibody NF-kappa-B inhibitor alpha antibody NFKBI antibody NFKBIA antibody Nuclear factor of kappa light chain gene enhancer in B cells antibody Nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor alpha antibody
Accession No.	Swiss-Prot#:P25963
Calculated MW	34 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

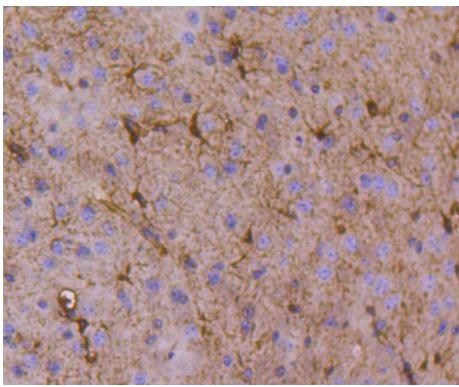
## Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200ICC: 1:50-1:200

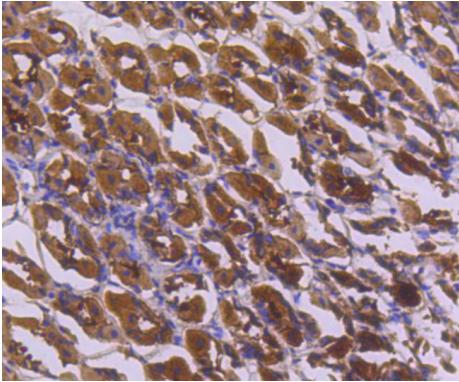
## Images



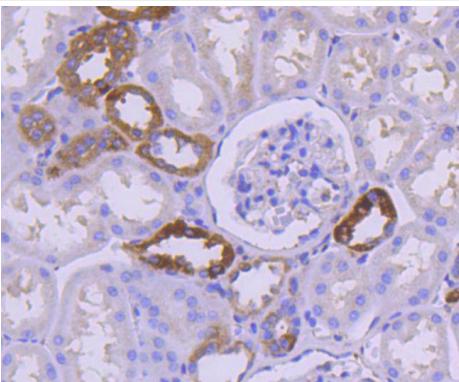
Western blot analysis of IKB alpha on different lysates using anti-IKB alpha antibody at 1/1,000 dilution. Positive control:  
 Lane 1: PC-12      Lane 2: NIH/3T3 Lane 3: HeLa



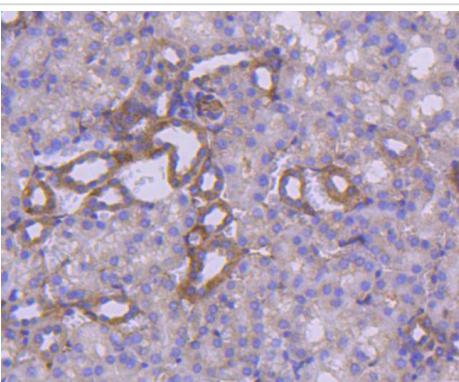
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-IKB alpha antibody. Counter stained with hematoxylin.



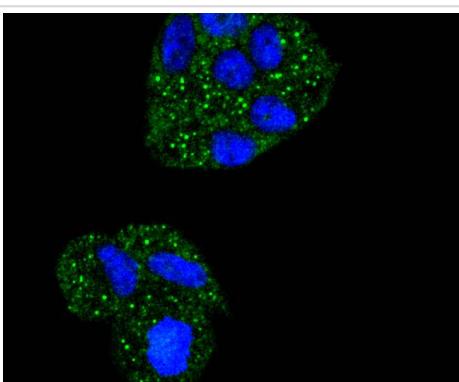
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-IKB alpha antibody. Counter stained with hematoxylin.



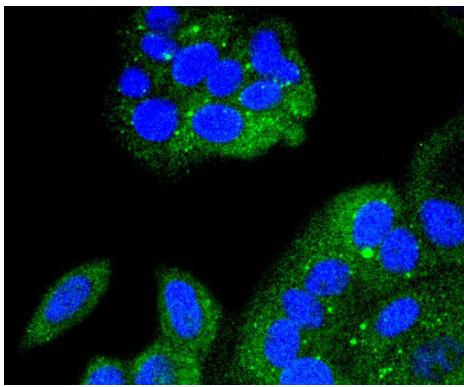
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-IKB alpha antibody. Counter stained with hematoxylin.



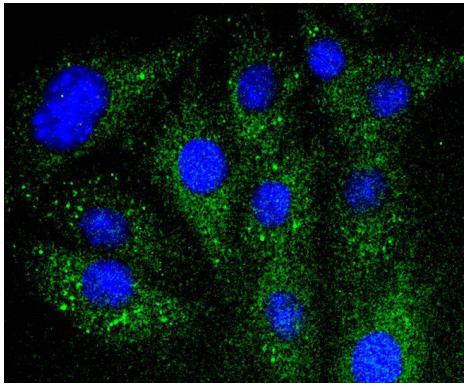
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-IKB alpha antibody. Counter stained with hematoxylin.



ICC staining IKB alpha in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining IKB alpha in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining IKB alpha in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

NFKB1 or NFKB2 is bound to REL, RELA, or RELB to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins, which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime.

## References

1. Bai X et al. Prostaglandin E2 stimulates  $\beta$ 1-integrin expression in hepatocellular carcinoma through the EP1 receptor/PKC/NF- $\kappa$ B pathway. *Sci Rep* 4:6538 (2014).
2. Broderick TL et al. Downregulation in GATA4 and Downstream Structural and Contractile Genes in the db/db Mouse Heart. *ISRN Endocrinol* 2012:736860 (2012).

## Published Papers

el at., Gingerenone A Attenuates Ulcerative Colitis via Targeting IL-17RA to Inhibit Inflammation and Restore Intestinal Barrier Function. In *Adv Sci (Weinh)* on 2024 Jul by Jian Liang, Weigang Dai, et al.. PMID:38639442, , (2024)  
PMID:38639442

Note: This product is for in vitro research use only and is not intended for use in humans or animals.